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## **ATTACHMENT B**

Claims 1-5 (canceled)

6. A network power manager apparatus of the type useable in a computer

network having a host system with a network power manager application adapted to issue

network commands and communicate network commands over a network

communications connection supporting IP communications, the network power manager

apparatus comprising in combination:

a power supply housing;

a power manager agent application mounted in association with the housing and

being connectable to the network communications connection;

a plurality of power outlets mounted in the power supply housing;

a plurality of intelligent power modules mounted in the power supply housing and

connectable to said network communications connection and thereby being in IP

communication with said network power manager application through said power

manager agent application, each said intelligent power module being adapted to provide

power from a power source to a corresponding power outlet among the plurality of power

outlets and being in communication with said power manager agent application to

provide power cycling on-off of said corresponding power outlet and at least one of

power state sensing and load-sensing with respect to said corresponding power outlet in

response to one or more commands.

7. The network power manager apparatus of claim 6 further comprising a

serial communications connection supported by a microprocessor, said serial

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communications connection connecting each of the intelligent power modules to the

power manager agent application.

8. The network power manager apparatus of claim 6 wherein each intelligent

power module further comprises a microprocessor connected by an opto-isolator whereby

the intelligent power module may independently sense the power state of said

corresponding outlet.

9. The network power manager apparatus of claim 8 wherein said

microprocessor communicates the power-on status of the IPM-corresponding outlet to the

network power manager application through said power manager agent application as a

variable in a managed information base data construct communicated over the network

communications connection in accordance with a predefined simple network

management protocol.

10. The network power manager apparatus of claim 6 wherein each of the

intelligent power modules further comprises a microprocessor connected by a load sensor

that independently senses the load status of the corresponding outlet.

11. The network power manager apparatus of claim 10 wherein said

microprocessor is adapted to communicate the load status to the network power manager

application through the power manager agent application as a variable in a managed

information base (MIB) data construct communicated over the network communications

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connection in accordance with a predefined simple network management protocol

(SNMP).

12. The network power manager apparatus of claim 6 wherein each of the

intelligent power modules further comprises a microprocessor in communication with a

relay that independently controls the power applied to the corresponding outlet.

13. The network power manager apparatus of claim 12 wherein said

microprocessor controls the power applied to the corresponding outlet in response to a

variable in a managed information base (MIB) data construct communicated from the

network power manager application to the power manager agent application over the

network communications connection in accordance with a predefined simple network

management protocol (SNMP).

14. The network power manager apparatus of claim 6 wherein each intelligent

power module further comprises:

a microprocessor in communication with:

a power state sensor that independently senses the power-on status of the

corresponding outlet;

a load sensor that independently senses the load status of the

corresponding outlet; and

a relay that independently controls the power applied to the corresponding

outlet.

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15. The network power manager apparatus of claim 6 wherein each intelligent

power module further comprises:

a power supply and clock generator, connected to a load-sensor, a power state

sensor, and a relay and that applies a series of alternating current (AC) voltage pulses

synchronized to a source of AC power to the corresponding outlet with an on/off switch,

said load sensor being adapted to sense the presence of a series of AC current pulses that

result if said on/off switch is closed;

a microprocessor that analyzes any AC current pulses detected by said load sensor

to determine if they resulted from application of the AC voltage pulses; and

an input/output connection connected to said microprocessor that outputs an

on/off status indication for said switch.

16. The network power manager apparatus of claim 6 wherein each intelligent

power module further comprises:

power output terminals with a power switch;

a synchronized pulse generator connected to said terminals that applies an

alternating pulsed voltage synchronized to an incoming alternating current power source

to the corresponding outlet;

a load sensor connected in series with said terminals and said power supply/clock

generator; and

a microprocessor connected to both said synchronized pulse generator and the

load sensor, said microprocessor being adapted to determine if a current sensed by said

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load sensor resulted from both said switch being closed and application of the alternating

pulsed voltage from said synchronized pulse generator.

17. The network power manager apparatus of claim 16 wherein said power

state sensor comprises a voltage state determination processor in voltage determination

communication with a power relay in power controlling communication with said

corresponding power outlet.

18. The network power manager apparatus of claim 16 wherein said

synchronized pulse generator further comprises a clock generator with an output that

coincides with each zero-crossing of the incoming alternating current power.

19. The network power manager apparatus of claim 16 wherein said load

sensor further comprises an opto-isolator and a sense resistor.

20. The network power manager apparatus of claim 19 wherein said

microprocessor further comprises a data input connected to said opto-isolator and a data

output connected to control the synchronized pulse generator.

21. A network power manager apparatus of the type useable in a computer

network having a host system with a network power manager application adapted to issue

network commands and communicate network commands over a network

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communications connection, the network power manager apparatus comprising in

combination:

a power manager agent application connectable to the network communications

connection;

a plurality of power outlets;

a plurality of intelligent power modules (IPM) connectable in communication

with said network power manager application, each said intelligent power module being

adapted to provide power from a power source to a corresponding power outlet among

the plurality of power outlets and being in communication with said power manager

agent application to provide power cycling on-off of said corresponding power outlet and

at least one of power-on sensing and load-sensing with respect to said corresponding

power outlet in response to one or more commands.

22. The network power manager apparatus of claim 21 further comprising a

serial communications connection supported by a microprocessor, said serial

communications connection being adapted to connect each of the intelligent power

modules to the network power manager application.

23. The network power manager apparatus of claim 21 wherein each

intelligent power module further comprises a microprocessor connected by an opto-

isolator whereby the intelligent power module may independently sense the power-on

status of said corresponding outlet.

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24. The network power manager apparatus of claim 23 wherein said

microprocessor communicates the power-on status of the IPM-corresponding outlet to the

network power manager application through said power manager agent application as a

variable in a managed information base data construct communicated over the network

communications connection in accordance with a predefined simple network

management protocol.

25. The network power manager apparatus of claim 21 wherein each of the

intelligent power modules further comprises a microprocessor connected by a load sensor

that independently senses the load status of the corresponding outlet.

26. The network power manager apparatus of claim 25 wherein: said

microprocessor communicates the load status to the network power manager application

through the power manager agent application as a variable in a managed information base

(MIB) data construct communicated over the network communications connection in

accordance with a predefined simple network management protocol (SNMP).

27. The network power manager apparatus of claim 21 wherein each of the

intelligent power modules further comprises a microprocessor in communication with a

relay that independently controls the power applied to the corresponding outlet.

28. The network power manager apparatus of claim 27 wherein said

microprocessor controls the power applied to the corresponding outlet in response to a

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variable in a managed information base (MIB) data construct communicated from the

network power manager application to the power manager agent application over the

network communications connection in accordance with a predefined simple network

management protocol (SNMP).

29. The network power manager apparatus of claim 21 wherein each

intelligent power module further comprises:

a microprocessor in communication with:

a power on sensor that independently senses the power-on status of the

corresponding outlet;

a load sensor that independently senses the load status of the

corresponding outlet; and

a relay that independently controls the power applied to the corresponding

outlet.

30. The network power manager apparatus of claim 21 wherein each

intelligent power module further comprises:

a power supply and clock generator connected to a load-sensor, a power on

sensor, and a relay, said power supply and clock generator applying a series of alternating

current (AC) voltage pulses synchronized to a source of AC power to the corresponding

outlet with an on/off switch, said load sensor being adapted to sense the presence of a

series of AC current pulses that result if said on/off switch is closed;

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a microprocessor that analyzes any AC current pulses detected by said load sensor

to determine if they resulted from application of the AC voltage pulses; and

an input/output connection connected to said microprocessor that outputs an

on/off status indication for said switch.

31. The network power manager apparatus of claim 21 wherein each

intelligent power module further comprises:

power output terminals with a power switch;

a synchronized pulse generator connected to said terminals that applies an

alternating pulsed voltage synchronized to an incoming alternating current power source

to the corresponding outlet;

a load sensor connected in series with said terminals and said power supply/clock

generator; and

a microprocessor connected to both said synchronized pulse generator and the

load sensor, said microprocessor being adapted to determine if a current sensed by said

load sensor resulted from both said switch being closed and application of the alternating

pulsed voltage from said synchronized pulse generator.

32. The network power manager apparatus of claim 31 wherein said power

state sensor comprises a voltage state determination processor in voltage determination

communication with a power relay in power controlling communication with said

corresponding power outlet.

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33. The network power manager apparatus of claim 31 wherein said

synchronized pulse generator further comprises a clock generator with an output that

coincides with each zero-crossing of the incoming alternating current power.

34. The network power manager apparatus of claim 31 wherein said load

sensor further comprises an opto-isolator and a sense resistor.

35. The network power manager apparatus of claim 34 wherein said

microprocessor further comprises a data input connected to said opto-isolator and a data

output connected to control the synchronized pulse generator.

36. A network power manager apparatus of the type useable in a computer

network having a host system with a network power manager application adapted to issue

network commands and communicate network commands over a network

communications connection supporting IP communications, the network power manager

apparatus comprising in combination:

a power supply housing;

a power manager agent application mounted in the housing and being

connectable to the network communications connection;

a plurality of power outlets mounted in the power supply housing;

a plurality of intelligent power modules mounted in the power supply housing and

connectable to said network communications connection and thereby being in IP

communication with said network power manager application through said power

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manager agent application, each said intelligent power module being adapted to provide

power from a power source to a corresponding power outlet among the plurality of power

outlets and being in communication with said power manager agent application to

provide power cycling on-off of said corresponding power outlet and at least one of

power state sensing and load-sensing with respect to said corresponding power outlet in

response to one or more commands, said power state sensor having a voltage state

determination processor in voltage determination communication with a power relay in

power controlling communication with said corresponding power outlet, said intelligent

power module being in power state reporting communication with the network power

manager application through said power manager agent application through one or more

variables in a managed information base data construct communicated over the network

communications connection in accordance with a predefined simple network

management protocol.

37. The network power manager apparatus of claim 36 in which the voltage state

determination processor comprises a microprocessor portion controllably communicating

with said power relay.

38. The network power manager apparatus of claim 37 in which the network

communications connection is a serial connection providing serial communication

between the network power manager application and the power manager agent

application.